Docket No.

241072US2SRD/hc

IN THE UNITED STATE PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Naoki SHUTOH, et al.

SERIAL NO: 10/629,624

GAU:

FILED:

July 30, 2003

EXAMINER:

FOR:

THERMOELECTRIC MATERIAL AND THERMOELECTRIC ELEMENT

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Marvin J. Spivak

Registration No. 24,913

Customer Number

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

Paul Sacher Registration No. 43,418



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STATEMENT OF RELEVANCY

Reference AO (JP 2001-189495) on Form 1449:

This reference relates the crystal structure is similar to our invention.

Reference AW on Form 1449:

This reference relates to doping ZrNiSn-based thermoelectric materials. But there is no description of (Zr, Hf, Ti) NiSn compound that we invent.

Reference AX on Form 1449:

This reference relates to p-type half-Heusler materials. But there is no description of MNiSb compound that we invent.

SHEET 1 OF 1

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMANN OFFICE TRADE ATTY DOCKET NO. Form PTO 1449 (Modified) SERIAL NO. 241072US2SRD 10/629,624 **APPLICANT** LIST OF REFERENCES CITED BY APPLICANT Naoki SHUTOH, et al. FILING DATE **GROUP** July 30, 2003 **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT **SUB** FILING DATE DATE NAME **CLASS** INITIAL NUMBER CLASS IF APPROPRIATE AA AB AC ΑD ΑE AF AG ΑH ΑI AJ ΑK AL AM AN FOREIGN PATENT DOCUMENTS DOCUMENT **TRANSLATION** DATE COUNTRY NUMBER YES NO 2001-189495 07/10/2001 ΑO **JAPAN** Х AP AQ AR AS AT ΑU ΑV OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) H. HOHL, et al., J. Phys.: Condens., matter 11, pages 1697-1709, "EFFICIENT DOPANTS FOR ZrNiSn-BASED AW THERMOELECTRIC MATERIALS", 1999 K. MASTRONARDI, et al., Applied Physics Letters, vol. 74, no. 10, pages 1415-1417, "ANTIMONIDES WITH THE HALF-HEUSLER STRUCTURE: NEW THERMOELECTRIC MATERIALS", March 8, 1999 AY ΑZ Additional References sheet(s) attached Examiner **Date Considered** *Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant.



LIST OF RELATED CASES

Docket Number 221292US2 SRD	Serial or Patent Number 10/105,341	Filing or <u>Issue Date</u> 03/26/02	Inventor/ <u>Applicant</u> SHUTOH et al.
241072US2 SRD*	10/629,624	07/30/03	SHUTOH et al.